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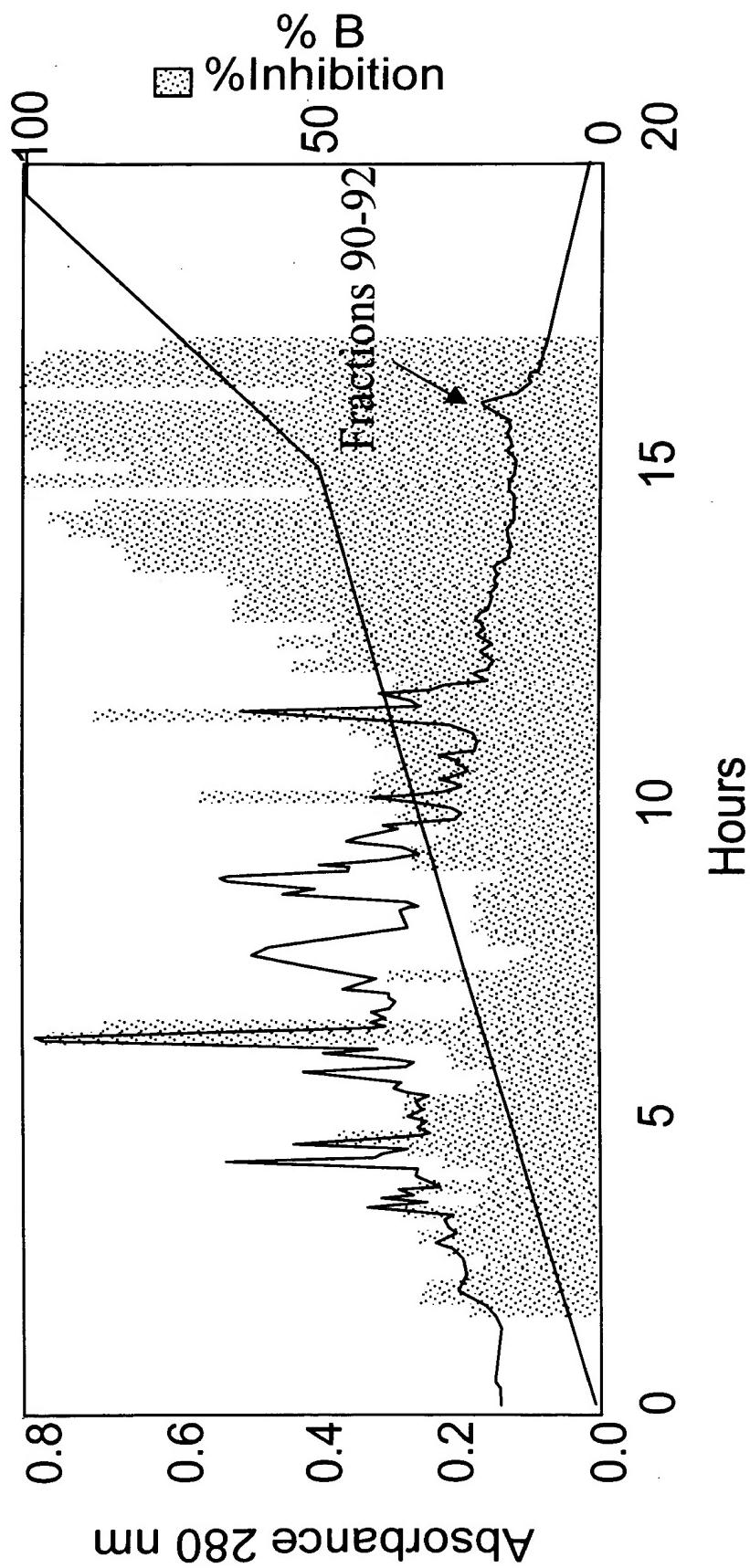


Fig. 1

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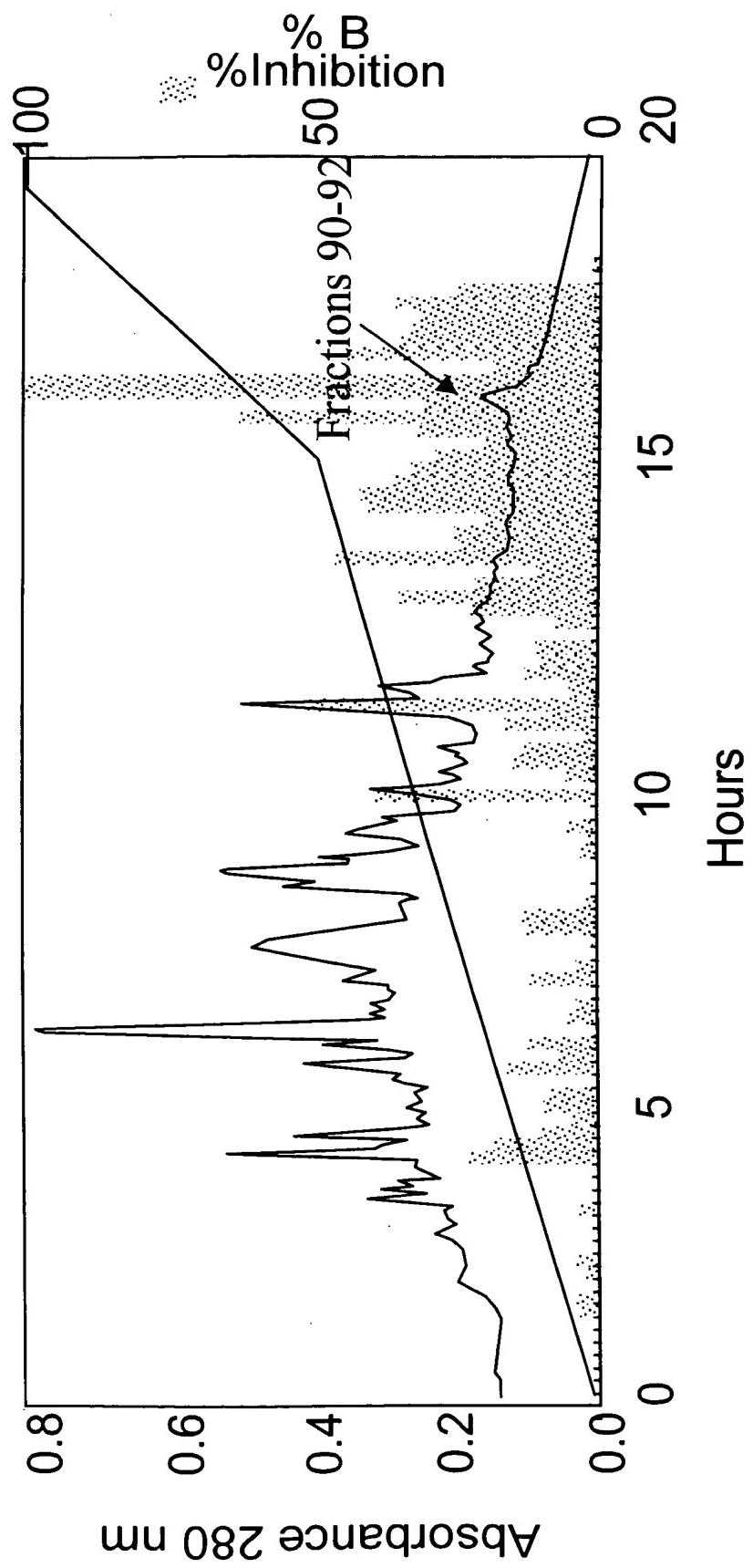
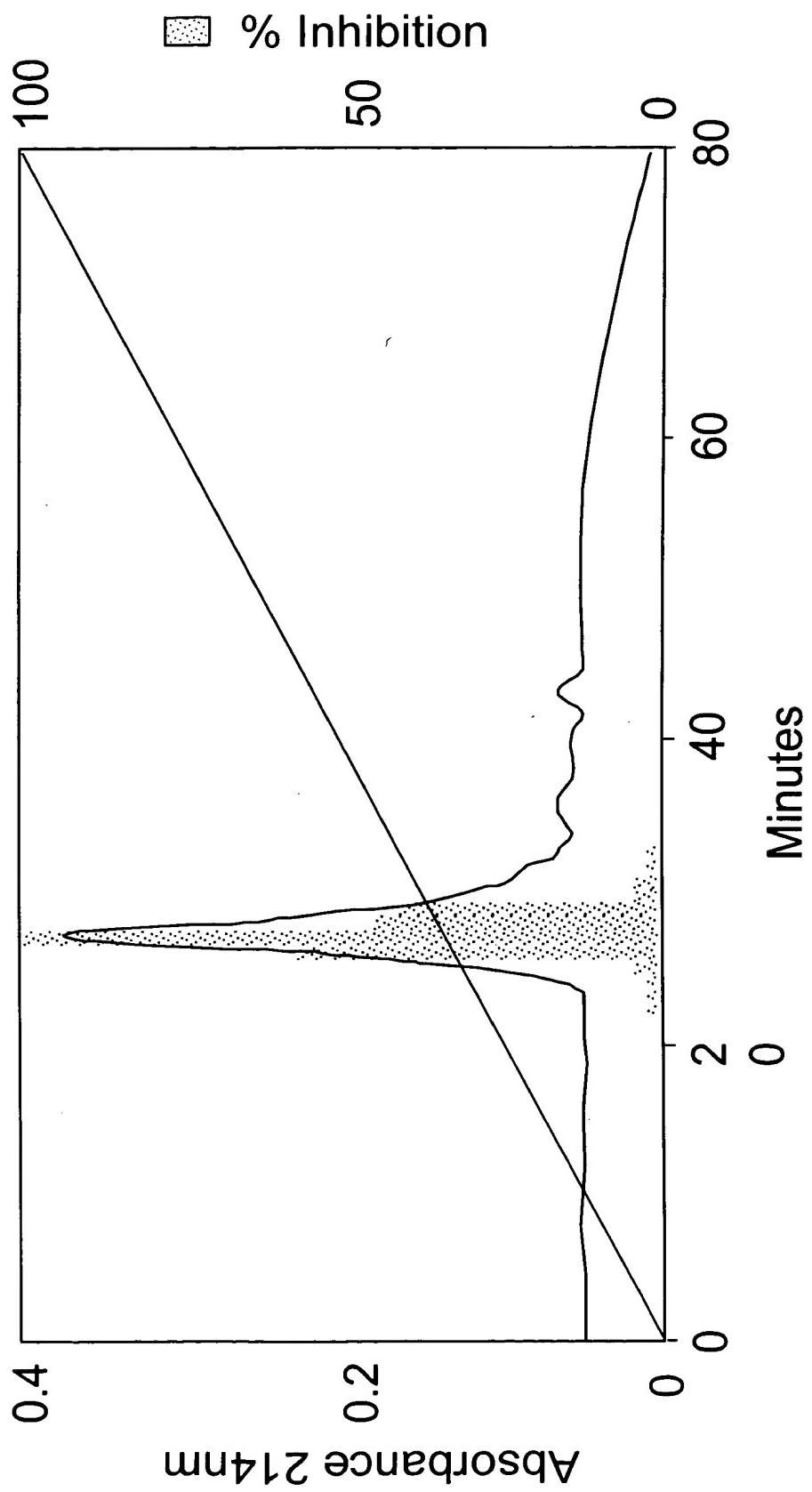


Fig. 2

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3  
Fig.

Mi2a	1	SEFDRQEYEECKRQCMQLE-TSG-QMRRCVSQCD	32
Mi2b	1	NQEDPQTECQQCQRRCRQQE-SGPRQQYCQRCK	34
Mi2c	1	NRQRDPQQQYEQCQQKHCQRRE-TEPRHMQT CQRCE	35
Mi2d	1	KRDPPQQREYEDCRRCEQQE---PRQQHQCLRCR	32
Cocoa-a	1	YERDPRQQYEQCQRRCESEA-TEEREQEQQCEQRCE	34
Cocoa-b	1	LQRQYQQCQGRCQEQQ-QGQRFQQQCQRKCW	30
Cotton-a	1	GDDDPKRYEDCRRCEWDT-RGQKEQQCEEESCK	34
Cotton-b	1	PEDPQRYYEECQQECRQQE---ERQQPQQCQRCL	31
Cotton-c	1	SQRQFQECQQHCHQQE-QRPEKKQQCVRECR	30
maize glob1_0 fr	1	EDDNHHHHGGHKSGRCVRRCEDR---PWHQRPRCLEQCR	36
barley glob fra	1	HDDEDDRRGGHSIQQCVQRCRQER---PRYSHARCVQECCR	37
Peanut-a	1	TENP---CAQRCLQSCQQE---PDDLKQKACESRCT	30
alpha conglycin	1	ENP---KHNKCLQSCNSER---DSYRNQACHARCN	29
SSAMP1 partial	1	VKEDHQFFETRGEIFLEYRLCQQQ	23
SSAMP2 partial	1	QKHRSQLILGCYLXCQL	17
SsAMP3 partial	1	LDPIRQQQLCQMRCQQQEKD-PRQQQQCK	28

Fig. 4

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Mi2a	33	KR <u>F</u> EEDIDWSKYD	45
Mi2b	35	E <u>I</u> C <u>E</u> EE <u>E</u> Y	43
Mi2c	36	R <u>RY</u> EKEKRKQQKRYEEQQREDEEKYEERMKEED <u>N</u>	69
Mi2d	33	EQQRQHGRGGDMNQPQRGGSGRY <u>E</u> EE <u>E</u> QS	63
Cocoa-a	35	RE <u>Y</u> KE <u>Q</u> QR <u>Q</u> <b>Q</b> <u>E</u> <b>E</b>	47
Cocoa-b	31	EQ <u>Y</u> KE <u>Q</u> ERGEHENYHNKKNR <u>S</u> <u>E</u> <u>E</u> GOQR	60
Cotton-a	35	S <u>Q</u> <b>Y</b> GE <u>K</u> D <u>Q</u> QQ <u>R</u> H <u>R</u>	47
Cotton-b	32	KR <u>F</u> E <u>Q</u> E <u>Q</u> Q <u>Q</u>	40
Cotton-c	31	E <u>K</u> <b>Y</b> Q <u>E</u> N <u>P</u> W <u>R</u> GER	42
maize g1b1	37	EEEREKRQERSRHEADRS <u>G</u> E <u>G</u> SS	60
barley glob	38	DDQQQHGRHE <u>Q</u> EEE <u>Q</u> GRGR <u>G</u> WH <u>G</u> E <u>E</u> <b>E</b> <u>E</u>	66
Peanut-a	31	KLE <u>Y</u> D <u>P</u> RC <u>V</u> YDTGATN <u>Q</u> R <u>H</u> PP <u>G</u> ERT - - RGRQP	60
alpha conglycin	30	LLKVEKE <u>E</u> <u>CE</u> <u>E</u> <u>G</u> EIPRPRPRPQH <u>P</u> ER	55
SsAMP1	partial	23	23
SsAMP2	partial	17	17
SsAMP3	partial	28	28

Fig. 4 (continued)

AACTCTAGAG CGGCCCGTC GACTATTGTT ACAACAATTAA CCAACAAACAA CAAACAAACAA 60

ACACATTAC AATTACTATT TACAATTACA GGATCCACAA CAATGGCTTG GTTCCACGTT 120  
S V C N A V F V V I I I M L L M F V P>  
  ↑

TCTGTTGTA ACGCTGTTT CGTTGTTATT ATTATTATA TGCTTCTTAT GTTCGTTCCCT 180  
S V C N A V F V V I I I M L L M F V P>

GTTGTTAGAG GTAGACAAAG AGATCCTCAA CAACAATAACG AGCAATGTCA AAAGAGGTGT 210  
V V R G R Q R D P Q Q Y E Q C Q K R C>  
  △

CAAAGGAGAG AGACTGAGGCC TAGACACATG CAAATTGTC AGCAAAGGTG TGAAAGGAGG 240  
Q R R E T E P R H M Q I C Q Q R C E R R>

TACCGAGAGG AGAAGAGGAA GCAACAAAG AGGTGAGGAT CCGTCGACGC GGCCGAGAT 270  
Y E K E K R K Q Q K R \* R

CTAGACAA 278

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Fig. 5

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Mi clone 1	1	MAINTSNLCSLLFLLS-FLLSTTVSLAE-----SEFDRQEYEE	38
Mi clone 2	1	MAINTSNLCSLLFLLS-FLLSTTVSLAE-----SEFDRQEYEE	38
Mi clone 3	0		0
cotton vicilin	1	MVRNKSSACVVLLFSLFLSFGLLCSAKDFPGRGDD-----	35
cocoa vicilin	1	MVISKSPPFIVLIFSLLLSFALLCSGVSAYGKRQYER-----	36
	*	.* * . * . * . * . * . .	.
Mi clone 1	39	<u>CKRQCMQLETSGQMRRC</u> V <u>SQCDKRFEEDIDW</u> SKYDNQ <u>EDPQTECQ</u>	83
Mi clone 2	39	<u>CKRQCMQLETSGQMRRC</u> V <u>SQCDKRFEEDIDW</u> SKYDNQ <u>ddDPQTdCQ</u>	83
Mi clone 3	42	<u>QCMQLETSGQMRRC</u> V <u>SQCDKRFEEDIDW</u> SKYDNQ <u>EDPQTECQ</u>	83
cotton vicilin	36	-----DPPKRYE-----	42
cocoa vicilin	37	-----DPRQQYE-----	43
	*	*	.
Mi clone 1	84	<u>QCQRRCRQ</u> QESGPRQQYC <u>QRRCKEIC</u> EEEYNRQR--DPQQQY	126
Mi clone 2	84	<u>QCQRRCRQ</u> QESGPRQQYC <u>QRRCKEIC</u> EEEYNRQR--DPQQQY	126
Mi clone 3	84	<u>QCQRRCRQ</u> QES <u>dPRQQYC</u> <u>QRRCKEIC</u> EEEYNRQR--DPQQQY	126
cotton vicilin	43	<u>DCRRRC</u> EWDTRGQKEQQC <u>EECKSQYGEKDQQQRHRP</u> EDPQRRY	87
cocoa vicilin	44	<u>QCQRRCE</u> SEATEERE <u>EQEQC</u> QRCERE <u>YKEQQRQQ</u> --EEELQRQY	85
	* . * * *	.* . * . * . .	.* .. *

Fig. 6

Mi clone 1	127	EQ <u>CQK</u> <u>hC</u> QRRTEPRHMQTC <u>QQR</u> C <u>ERR</u> YEKEKR <u>KQQ</u> KRYEE <u>QQ</u> RE	171
Mi clone 2	127	EQ <u>CQeRC</u> QRR <u>hETEP</u> PRHMQTC <u>QQR</u> C <u>ERR</u> YEKEKR <u>KQQ</u> KRYEE <u>QQ</u> RE	171
Mi clone 3	127	EQ <u>CQK</u> <u>RKC</u> QRR <u>TEPRHMQI</u> C <u>QQR</u> C <u>ERR</u> YEKEKR <u>KQQ</u> KRYEE <u>QQ</u> RE	171
cotton vicilin	88	EE <u>CQQECRQQEE-</u> -RQQPQC <u>QQR</u> CLKR <u>EQQ</u> --	118
cocoa vicilin	86	QQ <u>CQGRC</u> QE <u>QQQQ</u> QRE <u>QQQC</u> QR <u>KCWEQY</u> -KE <u>Q</u> --	116
	..	** * . . . * * . . . * . . . *	.
Mi clone 1	172	DEEK <u>YEER</u> MKEED <u>DNKRD</u> P <u>QQ</u> RE <u>YED</u> C <u>RR</u> C <u>E</u> QQE--PR <u>QHQ</u> C <u>Q</u> 1	214
Mi clone 2	172	DEEK <u>YEER</u> MKEED <u>DNKRD</u> P <u>QQ</u> RE <u>YED</u> C <u>RR</u> C <u>E</u> QQE--PR <u>QHQ</u> C <u>Q</u> R	214
Mi clone 3	172	DEEK <u>YEER</u> M <u>KEg</u> D <u>DNKRD</u> P <u>QQ</u> RE <u>YED</u> C <u>RR</u> <u>h</u> C <u>E</u> QQE--PR <u>1QY</u> C <u>Q</u> R	214
cotton vicilin	119	-----QS <u>QRQF</u> QE <u>CQQ</u> H <u>CH</u> QQ <u>EQRPEKK</u> QQ <u>CVR</u>	146
cocoa vicilin	117	-----	116
	..	-----	.
Mi clone 1	215	RC <u>REQQRQHGRGGDmMNPQRGGSGRYEEGEE</u> QSDNPPYYF-DERS	258
Mi clone 2	215	RC <u>REQQRQHGRGGDLiN</u> PQRGGSGRYEEGEE <u>KQSDNPPYYF</u> -DERS	258
Mi clone 3	215	RC <u>qEQQRQHGRGGDLMN</u> PQRGGSGRYEEGEE <u>KQSDNPPYYF</u> -DERS	258
cotton vicilin	147	<u>ECREKY</u> --QENPWRGEREEEAEEEEE <u>GEEQEQSHNPFH</u> -HRRS	188
cocoa vicilin	117	-----ER-GEHENYHNHKKNRSEE <u>E</u> GQQQRNNPPYYFPKRRS	151
	..	** * * * * * * * **	.

Fig. 6 (continued)

Mi clone 1	259	LSTRFRTEEGHI SVLENFYGRSKLLRALKNYRLVLLLEANPNAFVL	303
Mi clone 2	259	LSTRFRTEEGHI SVLENFYGRSKLLRALKNYRLVLLLEANPNAFVL	303
Mi clone 3	259	LSTRFRTEEGHI SVLENFYGRSKLLRALKNYRLVLLLEANPNAFVL	303
cotton vicilin	189	FQSRFREEHGNFRVLQRFAASRHPILRGINEFRSLSTLEANPNTFVL	233
cocoa vicilin	152	FQTRFRDEEGNFKILQRFAENSPPPLKGINDYRLAMFEANPNTFIL	196
	.	*** * * . * . * . * . * . * . * . * . * . * . *	.
Mi clone 1	304	PTHLDADAILLVIGGRGALKM <b>I</b> HhDNRESYNLECGDVIRIPAGTT	348
Mi clone 2	304	PTHLDADAILLVIGGRGALKM <b>I</b> HRDNRESYNLECGDVIRIPAGTT	348
Mi clone 3	304	PTHLDADAILLVIGGRGALKM <b>I</b> HRDNRESYNLECGDVIRIPAGTT	348
cotton vicilin	234	PHHCDAEKIYLVTNGRGTLTFLTHENKESYNIVPGVVVKVPAGST	278
cocoa vicilin	197	PHHCDAEAIYFVTNGKGTTITFV'THENKESYNVQRGTVVVSPAGST	241
	*	* * . * * . * . * . * . * . * . * . * . * . *	.
Mi clone 1	349	FYLINRDNNERL <b>I</b> AKFLQTISTPGQYKEFFPAGGQNPEPYLSTF	393
Mi clone 2	349	FYLINRDNNERL <b>I</b> AKFLQTISTPGQYKEFFPAGGQNPEPYLSTF	393
Mi clone 3	349	FYLINRDNNERL <b>I</b> AKFLQTISTPGQYKEFFPAGGQNPEPYLSTF	393
cotton vicilin	279	VYLANQDNKEKLIIAVLHRPVNNPGQEEFFPAGSQRPQS <sup>Y</sup> YLRAF	323
cocoa vicilin	242	VYVVSQDNQEKLTIAVLALPVNSPGKYELFFPAGNNKPESYYGAF	286
	*	. * * . * . * . * . * . * . * . * . * . * . *	.

Fig. 6 (continued)

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Fig. 6 (continued)

Mi clone 1	524	ACPHLSGRHGGGGKRHEEEED	-----VHYEQVRARLSKREAIV	563
Mi clone 2	524	ACPHLSGRHGGRRGGKRHEEEED	-----VHYEQVKARLSKREAIV	563
Mi clone 3	524	ACPHLSGRHGGGGKRHEEEEEE	-----VHYEQVRARLSKREAIV	563
cotton vicilin	455	VSPHILPRQSSYEEEEEDEEEEEE	QQEERRSGQYRKIRSRLLSRGD	499
cocoa vicilin	419	ACPHLSRQSQGSQSGRQDRREQEESE	EEETFGEEFQQVKAPLSPGD	463
	*	*	*	.
Mi clone 1	564	---VLAGHPVVFSQGNENLLLFAFGINAQNNHEN	----FLAGR	600
Mi clone 2	564	---VpvgHPVVFSQGNENLLLFAFGINAQNNHEN	----FLAGR	600
Mi clone 3	564	---VLAGHPVVFSQGNENLLLFAFGINAQNNHEN	----FLAGR	600
cotton vicilin	500	IFVVPANFPVTFVASQNQLRMTGFGLYNQNTINPDHNQRIFVAGK	544	
cocoa vicilin	464	VVFVAPAGHAVTFFASKDQPLNAVAFLGLNAQN	----NQRIFLAGR	503
	*	*	*	.
Mi clone 1	601	ERNVLQQIEPQAMELAFAAPRKEVEESFNSQ-DqSIFFPGPRQHQ	645	
Mi clone 2	601	ERNVLQQIEPQAMELAFAAPRKEVEELFNSQ-DESIFFPGPRQHQ	645	
Mi clone 3	601	ERNVLQQIEPQAMELAFAASRKEVEELFNSQ-DESIFFPGPRQHQ	645	
cotton vicili	545	INHVRQ-WDSQAKELAFGVSSRLVDEIFNSNPQES-YF-VSRQRQR	587	
cocoa vicilin	504	-----PFFLNHKQNTN	514	
	*	.	*	.

Fig. 6 (continued)

Mi clone 1	646	QSPRSTKQQQPIVSIIDFVGF	666
Mi clone 2	646	QS <del>S</del> RSTKQQQPIVSIIDFVGF	666
Mi clone 3	646	QSPRSTKQQQPIVSIIDFVGF	666
cotton vicilin	588	ASE	590
cocoa vicilin	515	VIKFTVKASAY	525

Fig. 6 (continued)

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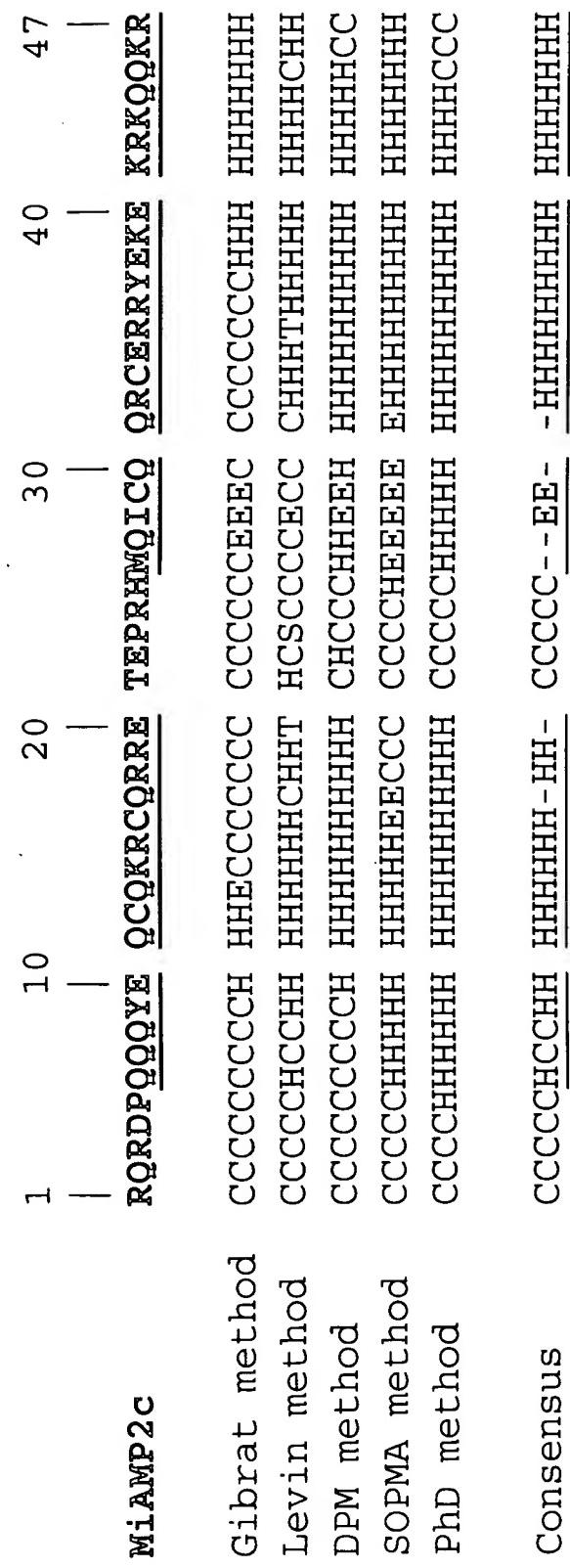


Fig. 7

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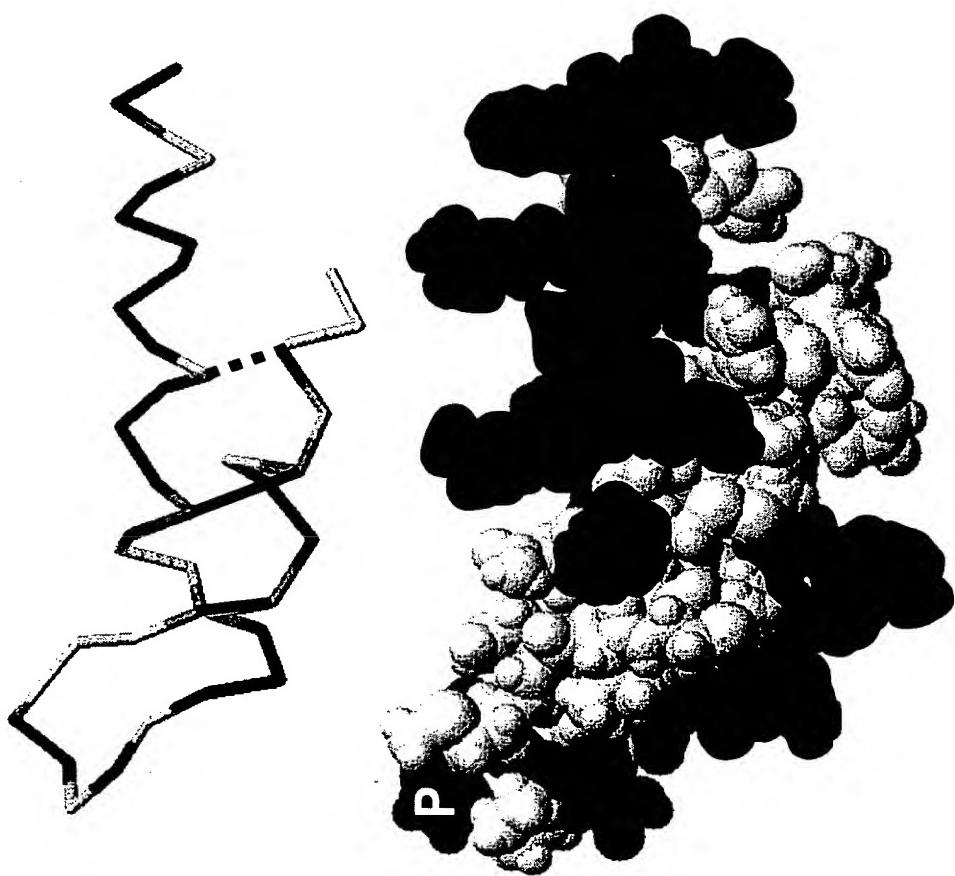


Fig. 8

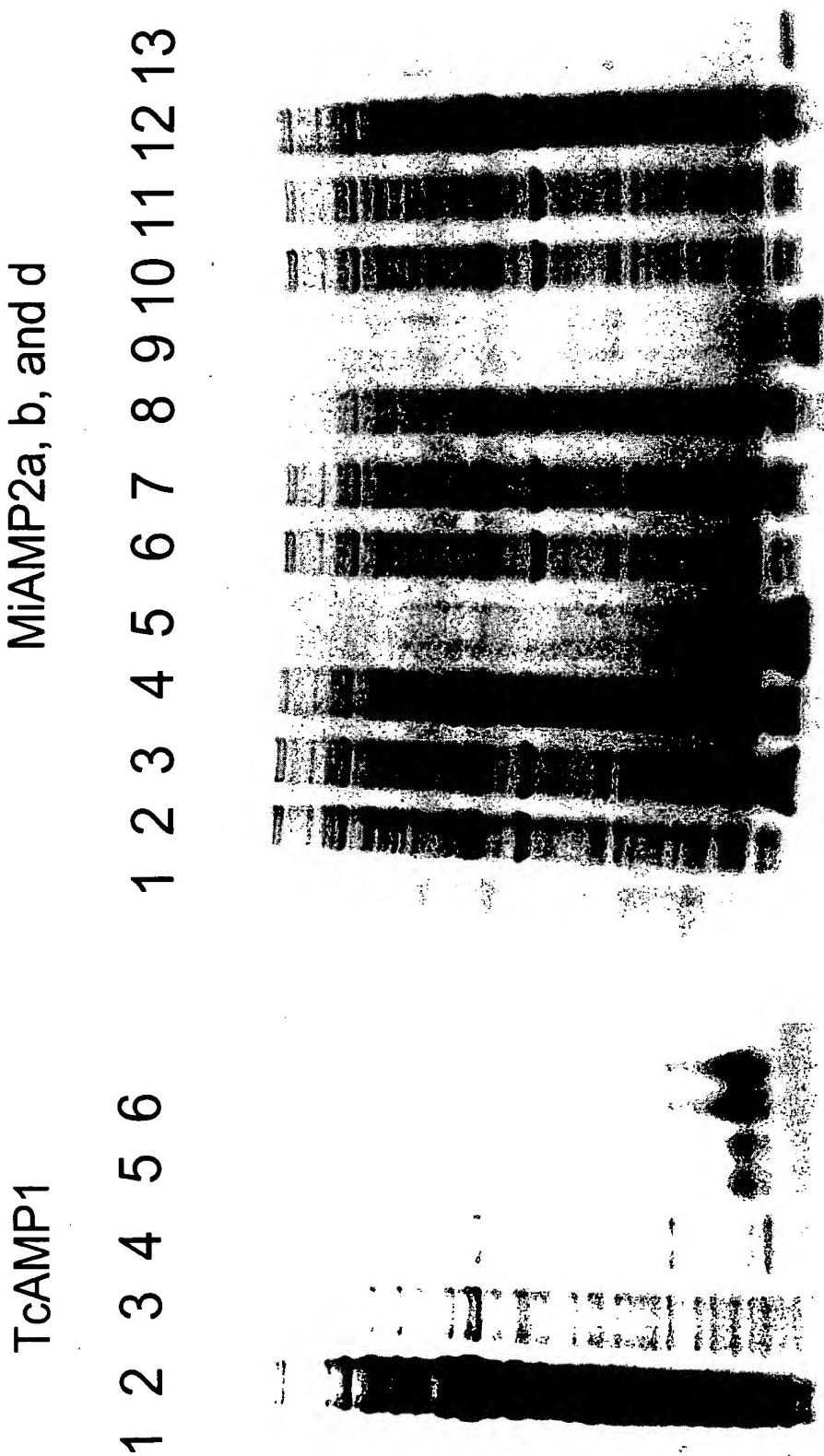


Fig. 9

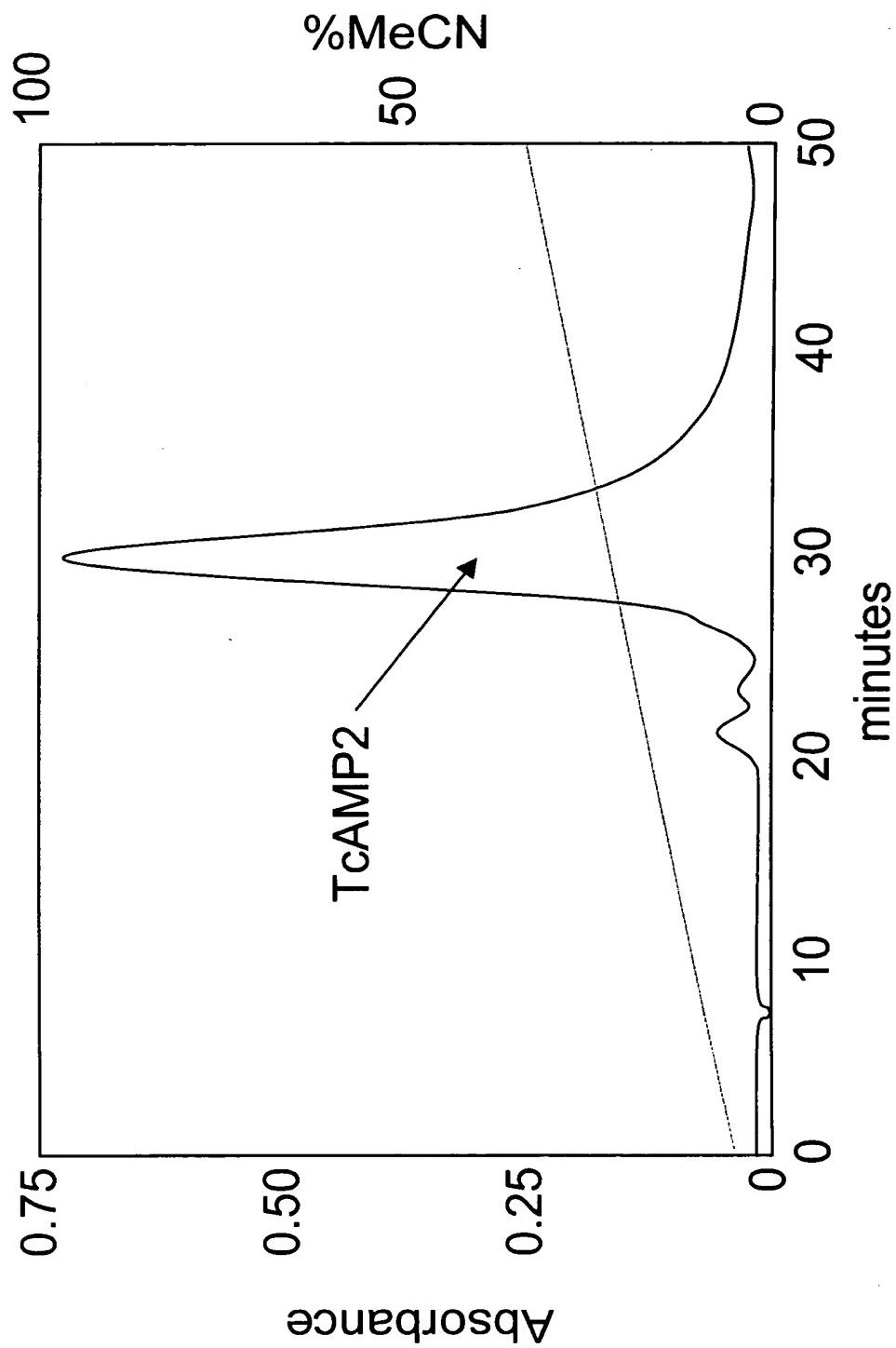


Fig. 10

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



Fig. 11

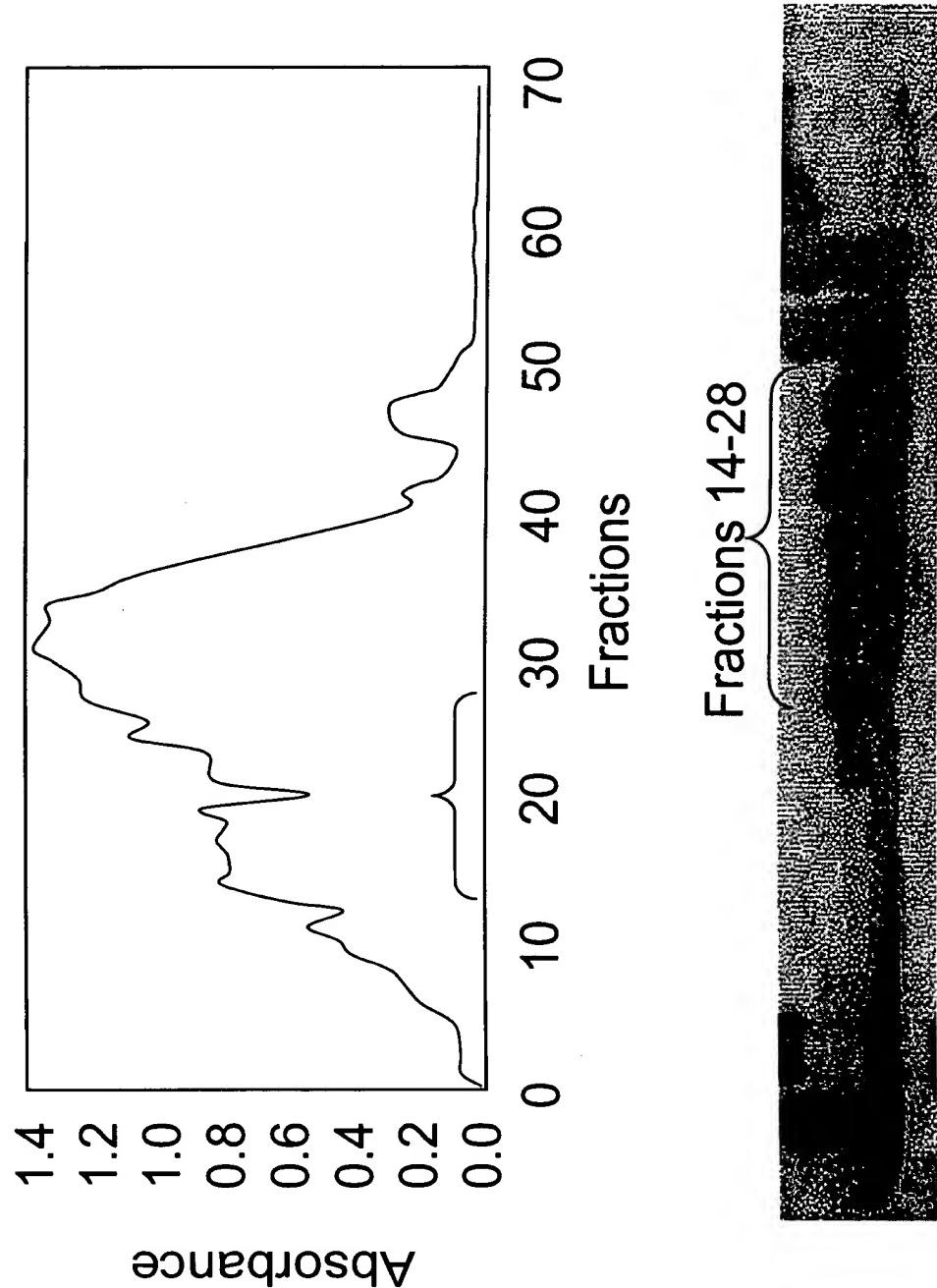


Fig. 12

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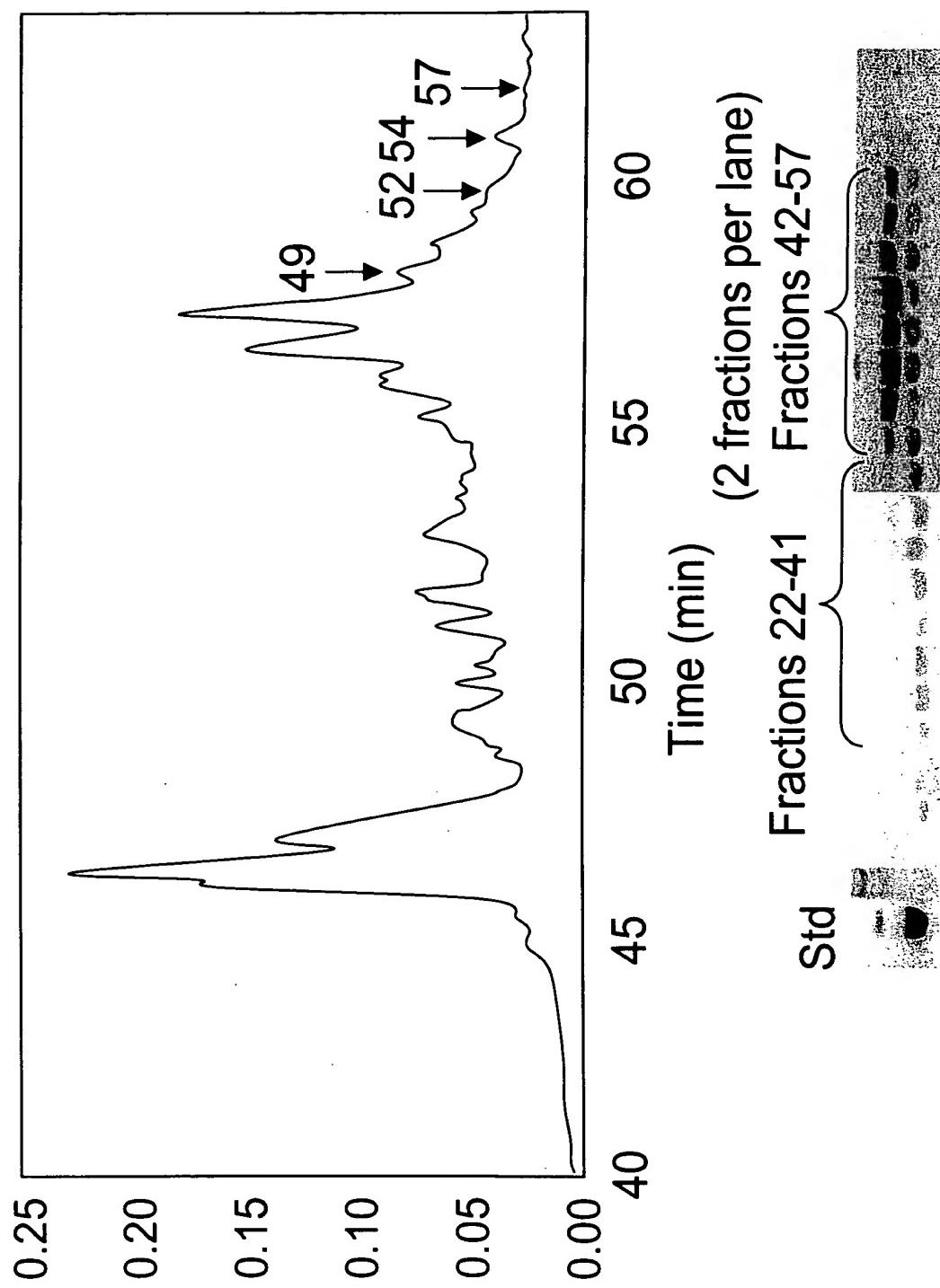


Fig. 13

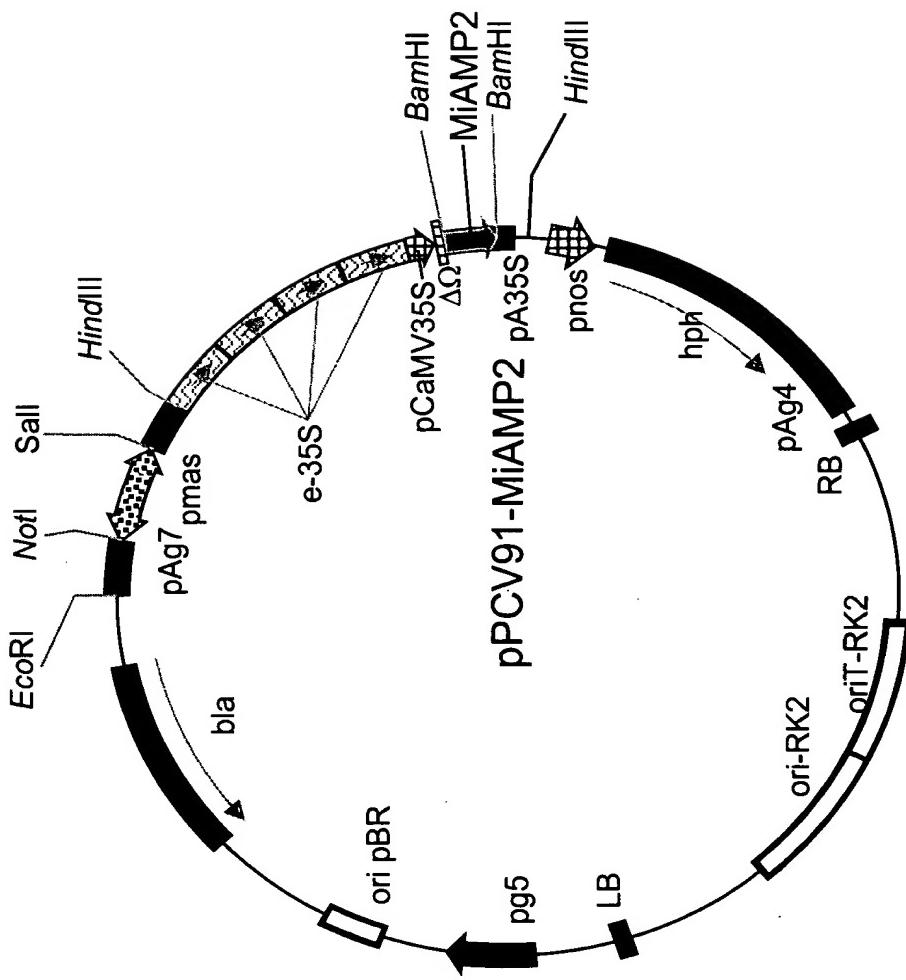


Fig. 14

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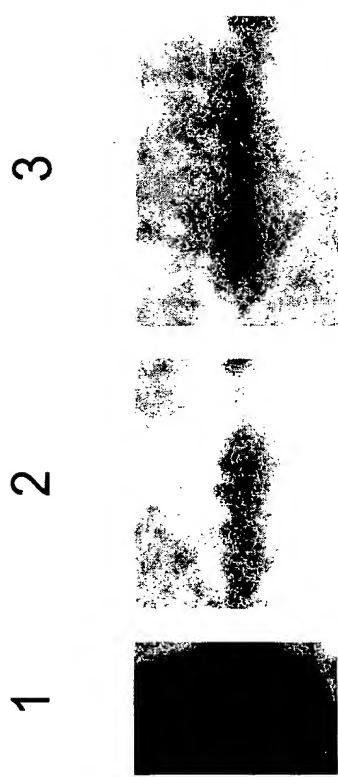


Fig. 15